BRUHATH BANGALORE MAHANAGARAPALIKE

BYATARAYANAPURA DIVISION

1ST AND FINAL BILL

Name of work:Improvements to Roads and Drains at KNV 2nd Stage Muneshwara Layout in Ward No 10 (Doddabommasandra) Vidyaranyapura Sub Division

JOB NUMBER:010-20-000076

Estimate Cost:25.00 lakhs

AS No:AS/CE(YNK)/169/2020-21 Date:27-03-2020

TS No:TS/CE(YNK)/333/2020-21 Date:27-03-2020

Work Order No: BBMP / EE/ BTP/ W.O /172/2020-21 dt:13-01-2021

Name of Contractor :Sri B.P Shanmugam

Item No	Description of Item	No	Length	Breadth	D1	D2	Avg Depth	Unit	Qty	Rate in Rs	Amount
1	Earthwork excavation by manual means for roads, drains & similar works in hard soil excavated surface leveled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. etc., complete as per the directions of the Engineer-in-charge of the work.										
	Qty Taken from Pre measurement - Item No. 1, Page No.1							**Cum**	**270.21**	**180.00**	**48637.35**
2	Removing and refixing stone slabs of drains and pointing in CM (1:3)										
	Qty Taken from Pre measurement - Item No. 2, Page No.2							**Sqm**	**200.16**	**91.00**	**18214.56**
3	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregtes @ 0.56cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications.										
	Qty Taken from Pre measurement - Item No. 3, Page No.3							**Cum**	**32.08**	**5002.00**	**160464.16**
4	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm (I No-37.59.2,P No-271 PWD SR 2018-19)										
	For New Rcc Drain										
	For RCC Walls										
	Muneshwara Layout										
	4th Cross Road From RR School Main Road to										
	LHS										
		1	30.00	0.75	0.15	0.15	0.15		3.38		
		1	30.00	0.75	0.15	0.15	0.15		3.38		
		1	30.00	0.75	0.15	0.15	0.15		3.38		
		1	30.00	0.75	0.15	0.15	0.15		3.38		
		1	18.00	0.75	0.15	0.15	0.15		2.03		
	RHS										
		1	30.00	0.75	0.15	0.15	0.15		3.38		
		1	30.00	0.75	0.15	0.15	0.15		3.38		
		1	30.00	0.75	0.15	0.15	0.15		3.38		
		1	30.00	0.75	0.15	0.15	0.15		3.38		
		1	14.00	0.75	0.15	0.15	0.15		1.58		
	For RCC Bottom Raft										
	4th Cross Road From RR School Main Road to										
	LHS										
		2	30.00	0.15	0.60	0.60	0.60		5.40		

ASSISTANT EXECUTIVE ENGINEER

36.05

Item	Description of Item	No	Length	Breadth	D1	D2	Avg Depth	Unit	Qty	Rate in Rs	Amount
		2	30.00	0.15	0.60	0.60	0.60		5.40		
		2	30.00	0.15	0.60	0.60	0.60		5.40		
		2	30.00	0.15	0.60	0.55	0.58		5.18		
		2	18.00	0.15	0.55	0.55	0.55		2.97		
	RHS										
		2	30.00	0.15	0.60	0.60	0.60		5.40		
		2	30.00	0.15	0.60	0.60	0.60		5.40		
		2	30.00	0.15	0.60	0.60	0.60		5.40		
		2	30.00	0.15	0.60	0.50	0.55		4.95		
		2	14.00	0.15	0.50	0.55	0.53		2.21	42.31	
							Present Qty	**Cum**	**78.30**	**6000.00**	**469800.00**
5	Providing T.M.T steel reinforcement for R.C.C workincluding straightening, cutting, bending, hooking, placing in position,lapping and / or welding wherever required, tying with binding wire andanchoring to the adjoining members wherever necessary complete asper design (laps, hooks and wastage shall not be measured and paid)cost of materials, labour, HOM of machinery complete as perspecifications.Specification No. KBS 4.6.3 TMT Bars Fe-500										
	Qty Taken from Pre measurement - Item No.5, Page No.4							**Tonne**	**4.30**	**70000.60**	**301251.78**
6	Providing and fixing Precast cover slab Made out of CC 1:2:4 with 10cm thick and finishing cutting, including form work, curing,including cost of all materials, Labour, Hire Charges of machinery, loading,unloading,leaad and lift, transportation, etc complete.Data Rate										
	For New Rcc Drain										
	Muneshwara Layout										
	4th Cross Road From RR School Main Road to Dead End										
	LHS										
		1	30.00	0.75					22.50		
		1	30.00	0.75					22.50		
		1	30.00	0.75					22.50		
		1	30.00	0.75					22.50		
		1	18.00	0.75					13.50		
	RHS										
		1	30.00	0.75					22.50		
		1	30.00	0.75					22.50		
		1	30.00	0.75					22.50		
		1	30.00	0.75					22.50		
		1	14.00	0.75					10.50		
	Missing Slabs										
	3rd Cross Road From RR School Main Road to Dead End										
	LHS										
		9	0.60	0.90					4.86		
		11	0.60	0.90					5.94		
		14	0.60	0.90					7.56		
	RHS										
		10	0.60	0.90					5.40		
		9	0.60	0.90					4.86		
		7	0.60	0.90					3.78		
							Present Qty	**Sqm**	**236.40**	**1900.00**	**449160.00**
7	Excavation for roadwork in All types of Soil by Mechanical Means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications. MORTH Specification No.301										
	Qty Taken from Pre measurement - Item No.7, Page No.5							**Cum**	**19.77**	**56.26**	**1112.24**

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Pa

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Item No	Description of Item	No	Length	B1	B2	Avg Breadth	Depth	Unit	Qty	Rate in Rs	Amount
8	KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406										
	Qty Taken from Pre measurement - Item No.8, Page No.6							**Cum**	**19.77**	**2001.28**	**39564.61**
9	KSRRB 500-1. Cleaning the existing WBM road surface including removing of binding materials and other foreign matter with wire brushes and small picks, sweeping with brooms or soft brushes and finally dusting with old gunny bags and / or compressed air, to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501										
	Qty Taken from Pre measurement - Item No.9, Page No.7							**Sqm**	**264.41**	**22.26**	**5885.66**
10	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH Specification No. 502										
	Qty Taken from Pre measurement - Item No.10, Page No.8							**Sqm**	**264.41**	**28.62**	**7567.27**
11	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications.. MORTH Specification No. 507 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen										
	Qty Taken from Pre measurement - Item No.11, Page No.9							**Cum**	**13.22**	**6597.44**	**87219.81**
12	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501										
	Qty Taken from Pre measurement - Item No.12, Page No.10							**Cum**	**1120.90**	**5.30**	**5940.78**
13	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH/Chapter 5										
	Qty Taken from Pre measurement - Item No.13, Page No.11							**Sqm**	**1120.90**	**12.72**	**14257.88**
14	KSRRB M500-19. Providing and laying bituminous concrete 40 mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. MORTH Specification No. 509 - using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 45 mm) with 6 % VG-30 Bitumen										
	For Asphalt Road										
	Muneshwara Layout										
	3rd Cross Road From RR School Main Road to Dead End										
		1	1.00	5.90	5.90	5.90	0.04		0.24		
		1	3.80	4.90	4.20	4.55	0.04		0.69		
		1	30.00	5.00	4.75	4.88	0.04		5.85		

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Item No	Description of Item	No	Length	B1	B2	Avg Breadth	Depth	Unit	Qty	Rate in Rs	Amount
		1	30.00	4.75	4.80	4.78	0.04		5.73		
		1	17.00	4.80	4.50	4.65	0.04		3.16		
		1	17.20	4.20	4.15	4.18	0.04		2.87		
	4th Cross Road From RR School Main Road to Dead End										
		1	2.00	6.20	5.75	5.98	0.04		0.48		
		1	9.50	5.20	5.30	5.25	0.04		2.00		
		1	30.00	4.55	5.05	4.80	0.04		5.76		
		1	6.30	5.05	5.10	5.08	0.04		1.28		
		1	17.00	4.70	4.30	4.50	0.04		3.06		
		1	30.00	5.10	4.60	4.85	0.04		5.82		
		1	12.20	4.60	5.40	5.00	0.04		2.44		
		1	8.80	4.85	5.00	4.93	0.04		1.73		
		1	9.30	5.40	5.70	5.55	0.04		2.06		
		1	9.60	5.20	4.40	4.80	0.04		1.84		
	Deductions										
	3rd Cross Road										
	Man Hole's	-3	(3.142*0.9*0.9)/4				0.04		-0.08		
	4th Cross Road										
	Man Hole's	-4	(3.142*0.9*0.9)/4				0.04		-0.10		
								Present Qty	**Cum**	**44.84**	**7753.90**	**347654.64**
15	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per										
	For Asphalt Road										
	Muneshwara Layout										
	3rd Cross Road From RR School Main Road to Dead End										
		2	1.00	0.10					0.20		
		2	3.80	0.10					0.76		
		2	30.00	0.10					6.00		
		2	30.00	0.10					6.00		
		2	17.00	0.10					3.40		
		2	17.20	0.10					3.44		
	4th Cross Road From RR School Main Road to Dead End										
		2	2.00	0.10					0.40		
		2	9.50	0.10					1.90		
		2	30.00	0.10					6.00		
		2	6.30	0.10					1.26		
		2	17.00	0.10					3.40		
		2	30.00	0.10					6.00		
		2	12.20	0.10					2.44		
		2	8.80	0.10					1.76		
		2	9.30	0.10					1.86		
		2	9.60	0.10					1.92		
								Present Qty	**Sqm**	**46.74**	**454.74**	**21254.55**
											Total	**1977985.28**
											GST Charges 12%	**237358.23**
											Grand Total	**2215343.51**

Assistant Engineer
Ward No.10

Assistant Executive Engineer
Vidyaranyapura Sub division

ASSISTANT EXECUTIVE ENGINEER
Vidyaranyapura Sub-Division
Bruhath Bengaluru Mahanagara Palike